CLAIMS

What is claimed is:

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| 1 | 1 | Δ | medical | robotic | system, | comprising: |
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- 2 a first medical device;
- a first input device that can be moved a first input
- distance to move said first medical device;
 - a second input device that can be moved a second input distance to move said first medical device; and,
 - a feedback device that provides an indication of a difference between the first and second input distances.
 - 2. The system of claim 1, wherein said feedback device provides a force feedback.
- 1 3. The system of claim 1, wherein said feedback device
- 2 includes a visual feedback.
- 1 4. The system of claim 2, wherein said force feedback
- 2 is applied to said first input device.

- The system of claim 4, wherein said force feedback 5. 1
- is applied to said second input device. 2
- The system of claim 1, wherein said first input 1
- device includes a handle and said second input device 2
- includes a handle. 3

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- The system of claim 1, further comprising a 7. 1 communication interface that couples said first and second THE STATE OF THE STATE OF STATE OF input devices to said first medical device.
 - The system of claim 7, wherein said first medical 8. device includes a robotic arm coupled to a medical instrument.
- The system of claim 1, wherein said first input 9. 11
 - device includes a switch that allows said first input 2
 - device to assume sole control of said first medical device. 3
 - 10. The system of claim 1, further comprising an 1
 - arbritator that is coupled to said first medical device, 2
 - said first input device and said second input device. 3

| 1 | 11. | Α | medical | robotic | system, | comprising: |
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2 a first medical device;

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- 3 first input means that can be moved a first input
- 4 distance for moving said first medical device;
- 5 second input means that can be moved a second input
- 6 distance for moving said first medical device; and,
- feedback means for providing an indication of a

 difference between the first and second input distances.
 - 12. The system of claim 11, wherein said feedback means provides a force feedback.
 - 13. The system of claim 11, wherein said feedback means includes a visual feedback.
 - 1 14. The system of claim 12, wherein said force
 - 2 feedback is applied to said first input means.
 - 1 15. The system of claim 14, wherein said force
 - 2 feedback is applied to said second input means.

- 1 16. The system of claim 11, wherein said first input
- 2 means includes a handle and said second input means
- 3 includes a handle.

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- 1 17. The system of claim 11, further comprising a
- 2 communication means for remotely coupling said first and
- 3 second input devices to said first medical device.
 - 18. The system of claim 17, wherein said first medical device includes a robotic arm coupled to a medical instrument.
 - 19. The system of claim 11, wherein said first input means includes a switch that allows said first input means to assume sole control of said first medical device.
- 1 20. The system of claim 11, further comprising
- 2 arbritator means for arbitrating control of said first
- 3 medical device between said first input means and said
- 4 second input means.
- 1 21. A method for controlling a first medical device,
- 2 comprising:

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- moving a first input device a first input distance to
- 4 move a first medical device;
- 5 moving a second input device a second input distance to
- 6 move the first medical instrument; and,
- generating an indication of a difference between the
- 8 first and second input distances.
- 1 22. The method of claim 21, wherein a force is
- 2 feedback to the second input device.
 - 23. The method of claim 22, further comprising transmitting force feedback data from the first medical device to the second input device through a communication port.
 - 24. A medical robotic system, comprising:
- 2 a first medical device;

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- a controller coupled to said first medical device;
- a first pair of handles coupled to said controller to
- 5 control said first medical device; and,
- a second pair of handles coupled to said controller to
- 7 control said first medical device simultaneously with said
- 8 first pair of handles.

- 25. The system of claim 24, wherein said second pair 1
- of handles receives a force feedback as a function of 2
- movement of said first pair of handles. 3
- 26. The system of claim 25, wherein said force 1
- feedback is variable. 2
- The system of claim 24, wherein said first pair of 27. 1 handles include a switch that allows said first pair of 2 FINOU THE STATE OF THE RESIDENCE TO AND THE COMPANY OF THE STATE OF TH handles to assume sole control of at least one medical device.
 - The system of claim 24, further comprising a 28. network port to allow data to be transferred from said first pair of handles to said first medical device.
 - 29. A medical robotic system, comprising: 1
 - a first medical device; 2
 - a controller coupled to said first medical device; 3
 - first handle means for controlling said first medical 4
 - device; and, 5

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- 6 second handle means for controlling said first medical
- 7 device simultaneously with said first pair of handles.
- 1 30. The system of claim 29, wherein said second handle
- 2 means receives a force feedback as a function of movement
- 3 of said first handle means.
- 1 31. The system of claim 30, wherein said force
- 2 feedback is variable.

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- 32. The system of claim 29, wherein said first handle means include a switch that allows said first handle means to assume sole control of at least one medical device.
- 33. The system of claim 29, further comprising a network port to allow data to be transferred from said first handle means to said first, second and third medical

34. A method for controlling a plurality of medical

- 2 devices, comprising:

devices.

3 moving a first handle;

- 5 of said first handle; and,
- 6 moving a second handle simultaneously with said first
- 7 handle to move said first medical device.
- 1 35. The method of claim 34, wherein the first handle
- 2 assumes sole control of the first medical device.